

## CLAIMS

1. A convection-cooled projector comprises,  
a housing having a base, upstanding sidewalls extending from said base  
and a top,  
5 a liquid crystal display panel within said housing in spaced relation to said  
base,  
a plurality of thermal isolation walls within said housing between said liquid  
crystal display panel and said base, a projector light source within said housing  
for illuminating an image formed on said liquid crystal panel,  
10 said projector light source positioned between said base and said thermal  
isolation walls,  
a lens in said enclosure defining a projection surface,  
a plurality of ventilation openings in opposing walls incorporated within  
said enclosure,  
15 light transmission baffles within said enclosure in spaced relation to  
respective ventilation openings.
2. The convection cooled projector set forth in claim 1 wherein said liquid  
crystal display panel, isolation walls and lens are in alignment with said projection  
light source.
- 20 3. The convection cooled projector set forth in claim 1 wherein said  
thermal isolation walls are optically transparent and in parallel spaced relation to  
one another and said liquid crystal display panel and said light source.

4. The convection cooled projector set forth in claim 1 wherein said thermal isolation walls within said enclosure define multiple cooling compartments there between.

5. The convection cooled projector set forth in claim 1 wherein said  
5 projection light source comprises,  
a low wattage light bulb and a reflector associated therewith.

6. The convection-cooled projector set forth in claim 1 wherein said light  
transmission baffles define space-overlapping elements extending from  
respective facing isolation walls, base and liquid crystal panel support and said  
10 lens.

7. The convection cooled projector set forth in claim 1 wherein said lens  
comprises a Fresnel type lens positioned between said light projector source and  
said liquid crystal display panel.

8. A convection cooled projector comprising,  
15 a housing having a base, pairs of integral opposing upstanding sidewalls  
extending there from and a top,  
a liquid crystal display panel within said housing,  
a projector light source within said housing in spaced relation to said liquid  
crystal display panel,

20 a plurality of thermal insulation walls within said housing between said  
projection light source and said liquid crystal display,  
a portion of said thermal isolation walls being transparent and aligned with  
said projection light source and said liquid crystal display panel,

a lens in said housing in spaced relation to said liquid crystal display panel,

said bottom and top walls having a plurality of spaced parallel-venting slots therein,

5 light baffles in said housing in spaced overlapping relation to said venting slots.

9. The convection cooled projector set forth in claim 8 wherein said liquid crystal display panel, isolation walls and lens are in alignment with said projection light source.

10 10. The convection cooled projector set forth in claim 8 wherein said projection light source comprises,

a low wattage light bulb and a reflector associated therewith.

11. The convection cooled projector set forth in claim 8 wherein projector lens in spaced relation to said housing aligned in relation to an image from said  
15 Fresnel lens.

12. The convection-cooled projection set forth in claim 8 wherein said light baffles are optically opaque.

13. The convection cooled projector set forth in claim 8 wherein said lens is positioned between said light projector source and said liquid crystal display  
20 panel.

14. A suspension convection cool projector comprises, a suspension frame, a projector light source within said suspension frame, a liquid crystal display panel within said suspension frame in spaced relation to said light source, a lens in said enclosure defining a projection source, an image transfer means in communication with said lens.

15. The suspension convection cool projector set forth in claim 1 wherein said suspension frame is comprised of multiple elongated linkage elements.

16. The suspension convection cool projector set forth in claim 1 wherein said projection light source comprises a projection light bulb and support platform.

17. The suspension convection cool projector set forth in claim 1 wherein said liquid crystal display, projection lens and said light transfer means are in alignment with said light source.

18. The suspension convection cool projector set forth in claim 1 further comprises a first and second expandable baffle assemblies extending from said liquid crystal display to said respective lens and said light source.

19. The suspension convection cool projector set forth in claim 18 wherein said first and second baffle assemblies define an enclosure about and between said light source, liquid crystal display and said lens.

20. The suspension convection cool projector set forth in claim 18 wherein said first and second baffle assemblies have a plurality of elongated slots and abutting flanges therein.

21. The suspension convection cool projector set forth in claim 14 wherein said image transfer means in communication with said lens comprises a mirror in angularly spaced relation to said lens.